

# TECHNICAL DATASHEET

## TORNADO NON EX POWERED AIR RESPIRATOR

### **DESCRIPTION**

Powered Air Respirator providing 140l/min flow rate for open headtops and a 120 l/min flow rate for face masks.

Tornado Non-EX incorporates a blower unit supplying filtered air to the headtop through a breathing hose, with the motor encased in a durable Polypropylene casing

A large selection of headtops classified to TH2, TH3, TM2 and TM3 are available.

Tornado powered air respirators are compatible with the approved PF and TF filter range.

The blower unit contains a minimotor powered centrifugal fan running at approximately 7000 rpm. A microprocessor calculates the power required to maintain the set flowrate and adjusts automatically. If the flowrate falls below the minimum, an audible warning sounds and an LED flashes.

### **BATTERY AND CHARGER**

A removable NiMH rechargeable battery is safely enclosed within an ABS casing. Batteries are NiMH 4 cell, 4.8 V nominal.

The smartcharger allows the battery to be charged in 7-8 hours from fully discharged. The battery operating time is up to 7.5 hours depending upon Headtop/filter combination.

The microprocessor-controlled charger features an automatic recharging system including signal lights. The signal lamp on the charger indicates charging status.



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## Proflow 2 SC 160

### TECHNICAL DATA

Approvals:	EN12941 / EN12942 CE0086
Air flow:	Min 140 litres/min open headtops / min 120 litres/min face masks
Battery:	NimH 4.8 V nominal (5.2 max), 4.5 Ah battery. Internal overcurrent and temperature protection. Size 145mm x 70mm x 80mm, Weight 450 g
Battery operating time	Battery operating duration: up to approx 7-8 hours depending upon Headtop/filter combination
Unit Display	Power status; battery status; flow status
Alarms	Audible alarm sounds for low flow or low battery.
Alarm Sound Level	>75 dB (audible level dependant on headtop)
Weight of unit without filters or battery:	370 g approx.
Weight of unit with battery and no filters	820 g approx.
Operating Sound level:	< 75 dB (A)
Operating Temperature range:	-10 °C ... +40 °C
Humidity:	< 95%
Recharging temperature:	Recommended recharging temperature approx + 20 °C
Ingress Resistance:	IP54 Dust and water ingress

### MATERIAL DATA

Blower body	POLYPROPYLENE
Battery body	ABS

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Headtops Approved for use with Tornado Non EX			
Headtop	Article No		Tornado Non EX
	W. Eur	Nordics	
FH1 Half-Hood	2022948	2025473	TH3
FH2 Full-Hood	2022949	2025480	TH3
FH21 Anti-Static Full-Hood	2023098	2025486	TH3
FH22 Full-Hood	2024478	2025499	TH3
FH3 with PC visor (1mm)	2025833	2025835	TH2
FH3 with Anti-mist PC visor (1mm)	2025837	2025839	TH2
FH3 with Acetate visor (1mm)	2025841	2025843	TH2
FH31 Faceshield	2023084	2023086	NOT APPROVED
FH32 Faceshield	2031388	2031399	NOT APPROVED
FH4 Welding Visor (Stretch Hose)	2026674	2026676	TH2
FH5 with PC visor	2023114	2025601	NOT APPROVED
FH5 with AC visor	2025301	2025602	NOT APPROVED
FH51 PC Helmet & Hood	2023116	2025521	TH3***
FH51 AC Helmet & Hood	2024481	2025522	TH3***
FH52 PC Helmet & Hood	2025515	2025523	TH3***
FH52 AC Helmet & Hood	2025516	2025524	TH3***
FH53 PC Helmet & Hood	2025531	2025535	TH3***
FH53 AC Helmet & Hood	2025532	2025536	TH3***
FH6 Helmet with PC Visor	2023068	2023070	NOT APPROVED
FH61 Helmet with Welding Visor	2023097	2023100	NOT APPROVED
FH62 (Helmet & Gold visor)	2023118	2023121	NOT APPROVED
FH63 (Helmet & Shade 3 visor)	2023123	2023125	NOT APPROVED
FH65 (Helmet & Shade 5 visor)	2023128	2023130	NOT APPROVED
FH7 Full Hood	2029357	2029784	TH3***
FM1 Half Mask	2023538	2025649	TM2***
FM2/Sari Full Face Mask	2023639	2023641	NOT APPROVED
FM3/Promask Full Face Mask	2023647	2023657	TM3***
FM4/Vision Full Face Mask	2024413	2025686	TM3***

\*\*\*Important notes regarding Tornado PAPR in combination with TF233 filters:

1. Please note that TF233 filters (for Hg protection) are approved only for use with highest classification TM3 or TH3 rated headtops, please refer to TH ratings in the table above.
2. For customers requiring a PAPR system with an Hg filter in combination with a TM3 closed headtop (Facemasks FM 2,3,4 or TH3 open headtop with impact protection (FH51,52,53) we recommend for superior performance selecting our Proflow PAPR with Pro2000 Hg filter according to the articles below rather than selecting Tornado PAPR:

Part No.	Description
5064024	Proflow SC 120
5063781	Proflow EX 120
5542798	CF32A2B2E2K2 Hg P3 R (Pack 20)

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PF & TF Filters Approved for use with Tornado Non EX			
	Colour Code		Filter Description
		PF251 PSL	Solid and liquid particulates (dusts, fibres, mists, fumes, bacteria and virus)
		PF251/SUPER PSL	As above with approximately three times the capacity
		TF200 A2	Organic gases and vapours with a boiling point above 65°C
		TF203 K1	Ammonia and organic ammonia derivatives
		TF210 A1B1E1	As TF200 + inorganic and acid gases and vapours, eg. chlorine, hydrogen sulphide, hydrogen cyanide, sulphur dioxide and hydrogen chloride
		TF220 A2PSL	As TF200 + solid and liquid particulates (dusts, fibres, mists, fumes, bacteria and virus)
		TF223 K1PSL	As TF203 + solid and liquid particulates (dusts, fibres, mists, fumes, bacteria and virus)
		TF230 A1B1E1PSL	As TF210 + solid and liquid particulates, (dusts, fibres, mists, fumes, bacteria and virus)
		TF233 A2B2E2K2 Hg-PSL	As TF230 + ammonia and organic ammonia derivatives + mercury vapour + solid and liquid particulates (dusts, fibres, mists, fumes, bacteria and virus)***

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